



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

10/759,181

Source:

FWO

Date Processed by STIC:

1/29/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 4B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03



IFWO

RAW SEQUENCE LISTING

DATE: 01/29/2004

PATENT APPLICATION: US/10/759,181

TIME: 15:25:02

Input Set : A:\99034(sequence listing).APP.txt

Output Set: N:\CRF4\01292004\J759181.raw

3 <110> APPLICANT: University of Wales College of Medicine
 5 <120> TITLE OF INVENTION: Modified Biological Material
 7 <130> FILE REFERENCE:
 9 <140> CURRENT APPLICATION NUMBER: US/10/759,181
 10 <141> CURRENT FILING DATE: 2004-01-20
 12 <160> NUMBER OF SEQ ID NOS: 19
 14 <170> SOFTWARE: PatentIn Ver. 2.1

pp 1-3

Does Not Comply
 Corrected Diskette Needed

ERRORED SEQUENCES

294 <210> SEQ ID NO: 16
 295 <211> LENGTH: 1637
 296 <212> TYPE: DNA
 297 <213> ORGANISM: Porcus
 299 <400> SEQUENCE: 16

see p. 2

E--> 300 ccaccgcgggt ggcgggncgc tctagaacta gtggatcccc cgggctgcag gaattcggca 60
 301 cgagatttcg tcttaatcgc ggaggtcgca ggtccggga gccgctcggg gtccccgttc 120
 302 ccgcgcgcca tgagtccctt gccgcggagc gcccccgagg tgaggcgccct aatgggcgga 180
 303 cagacgcgcg cgcgctgctg gctgctgctg ctgctgctgt gtatcccggc tgcgcagggt 240
 304 gactgcagcc ttccaccgca tgtacctaat gcccaaccag atttgcgagg tcttgcaagt 300
 305 tttcctgaac aaaccacaat aacatacaaa tgtaacaaag gctttgtcaa agttcctggc 360
 306 atggcagact cagtgtcttg tcttaatgat aaatggtcag aagttgcaga attttgtaat 420
 307 cgtagctgtg atgttccaac caggctacat tttgcatctc ttaaaaagtc ttacagcaaa 480
 308 cagaattatt tcccagaggg tttcaccgtg gaatatgagt gccgtaaggg ctataaaagg 540
 309 gatcttactc tatcagaaaa actaacttgc cttcagaatt ttacgtggtc caaacctgat 600
 310 gaattttgca aaaaaaaaca atgtccgact cctggagaac taaaaaatgg tcatgtcaat 660
 311 ataacaactg acttgttatt tggcgcatcc atctttttct catgtaacgc agggtagaca 720
 312 ctagtgtgtg caacttctag ttactgtttt gccatagcaa atgatgttg gtggagtgat 780
 313 ccattgccag attgccaaga aatttctcca actgtcaaaag ccataccagc tgttgagaaa 840
 314 cccatcacag taaattttcc agcaacaaag tatccagcta ttcccagggc cacaacgagt 900
 315 tttcattcaa gtacatctaa aaatcgagga aacccttctt caggcatgag aatcatgtcg 960
 316 tctggtacca tgctacttat tgcaggaggt gttgctgtta ttataataat tgttgcccta 1020
 317 attctagcca aaggtttctg gcactatgga aaatcaggct cttaccacac tcatgagaac 1080
 318 aacaaagccg ttaatgttgc attttataat ttacctgcga ctggcgatgc cgcagatgta 1140
 319 agacctggtg attaacaaaa ggacgtgcat gtgtaacact gacagttttg cttatggtgc 1200
 320 tagtaaccat tggctagctg acttagccaa agaagagtta agaagaaaag gcacacaaag 1260
 321 acacagaata ttttcagttt cttaaaactt tcagggtgga gtggacatag tttgtggtag 1320
 E--> 322 tcttcttcg tttgcatggt ttcattggct ctaaggmaca taggaatgca cagaacchaa 1380
 E--> 323 gagaacaaaa tctatcctga aantacatcc tcaacapttc taanactctt ggaaatngaa 1440
 E--> 324 caagntcata agattgggag caattacttt cccaaaaggg tgagaaaaat ggagaaattt 1500
 E--> 325 ggtcatgggt agnaattttt gaaaaangaa accmnaagg gganttttcc ccccaaaagg 1560
 E--> 326 ggnagggtta tttttattta attaaagmaa aaaaaaaaaa aaaaaccmnn nggggggggcc 1620

see p. 3
 for
 error
 explanation
 n's need
 explanation

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Input Set : A:\99034(sequence listing).APP.txt

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E--> 327 ~~cggg~~cccat tttccct 1637

355 <210> SEQ ID NO: 18

356 <211> LENGTH: 327

357 <212> TYPE: PRT

358 <213> ORGANISM: Porcus

360 <400> SEQUENCE: 18

361 Met Gly Gly Gln Thr Pro Pro Pro Leu Leu Leu Leu Leu Leu Leu

362 1 5 10 15

364 Cys Ile Pro Ala Gln Gly Asp Cys Ser Leu Pro Pro Asp Val Pro

365 20 25 30

367 Asn Ala Gln Pro Asp Leu Arg Gly Leu Ala Ser Phe Pro Glu Gln Thr

368 35 40 45

370 Thr Ile Thr Tyr Lys Cys Asn Lys Gly Phe Val Lys Val Pro Gly Met

371 50 55 60

373 Ala Asp Ser Val Leu Cys Leu Asn Asp Lys Trp Ser Glu Val Ala Glu

374 65 70 75 80

376 Phe Cys Asn Arg Ser Cys Asp Val Pro Thr Arg Leu His Phe Ala Ser

377 85 90 95

379 Leu Lys Lys Ser Tyr Ser Lys Gln Asn Tyr Phe Pro Glu Gly Phe Thr

380 100 105 110

382 Val Glu Tyr Glu Cys Arg Lys Gly Tyr Lys Arg Asp Leu Thr Leu Ser

383 115 120 125

385 Glu Lys Leu Thr Cys Leu Gln Asn Phe Thr Trp Ser Lys Pro Asp Glu

386 130 135 140

388 Phe Cys Lys Lys Lys Gln Cys Pro Thr Pro Gly Glu Leu Lys Asn Gly

389 145 150 155 160

391 His Val Asn Ile Thr Thr Asp Leu Leu Phe Gly Ala Ser Ile Phe Phe

392 165 170 175

394 Ser Cys Asn Ala Gly Tyr Arg Leu Val Gly Ala Thr Ser Ser Tyr Cys

395 180 185 190

397 Phe Ala Ile Ala Asn Asp Val Glu Trp Ser Asp Pro Leu Pro Asp Cys

398 195 200 205

400 Gln Glu Ile Ser Pro Thr Val Lys Ala Ile Pro Ala Val Glu Lys Pro

401 210 215 220

403 Ile Thr Val Asn Phe Pro Ala Thr Lys Tyr Pro Ala Ile Pro Arg Ala

404 225 230 235 240

406 Thr Thr Ser Phe His Ser Ser Thr Ser Lys Asn Arg Gly Asn Pro Ser

407 245 250 255

409 Ser Gly Met Arg Ile Met Ser Ser Gly Thr Met Leu Leu Ile Ala Gly

410 260 265 270

412 Gly Val Ala Val Ile Ile Ile Ile Val Ala Leu Ile Leu Ala Lys Gly

413 275 280 285

415 Phe Trp His Tyr Gly Lys Ser Gly Ser Tyr His Thr His Glu Asn Asn

416 290 295 300

418 Lys Ala Val Asn Val Ala Phe Tyr Asn Leu Pro Ala Thr Gly Asp Ala

419 305 310 315 320

E--> 421 Ala ~~Xaa~~ Val Arg Pro Gly Asn

422 325

see p. 3
for error explanation

VARIABLE LOCATION SUMMARY

DATE: 01/29/2004

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error explanation
Use of n's or Xaa's (NEW RULES) :

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:16; N Pos. 17,1323,1330,1357,1378,1403,1424,1437,1445,1513,1520,1527

Seq#:16; N Pos. 1535,1544,1563,1588,1609,1610,1611,1625

Seq#:18; Xaa Pos. 322

VERIFICATION SUMMARY

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L:7 M:201 W: Mandatory field data missing, <130> FILE REFERENCE
L:9 M:270 C: Current Application Number differs, Replaced Current Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:300 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:16
M:340 Repeated in SeqNo=16
L:421 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:18